

# g2p/GEp Beam Transport Meeting Minutes

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**Attendees:** T. Michalski, P. Kjeldsen, JP Chen, M. Ahmad, S. Wood, C. Michaelides, K. Mahoney, J. Segal, H. Fansler, G. Lahti, S. Windham

The following is a summary of the discussion regarding g2p/GEp FSD/Interlocks for the December commissioning run. Additional changes may be required in some areas, when the target and local dump are installed.

- The baseline list of FSD/Interlocks used for the discussion came from Rich Wright, via e-mail, on 11/22/11.
- Page 1 included the 24V FSD Card items.
- WD Timer – Bit\_0 – standard item, no issues
- Diffuser (Water Flow) – Bit\_1 – standard item, no issues
- Calorimeter – Bit\_2 – need to verify that it is working – calorimeter was repositioned in the hall, but FSD should be the same
- Compton Electron Detector – not used for the experiment – permanently masked – leave the text on the screen
- Test Target – Bit\_4 (Tentative) – Needs clarification – not sure of what it is by the title – confirm with Rich Wright on Wednesday
- Target Movement – Bit\_5 – should provide 24V signal for “good” state – either IN or OUT is considered “good”
- Ion Chamber HV Status – Bit\_6 – new standard item, no issues
- Bit\_7 through Bit\_14 will cover all the Ion Chambers – the updated list that Kelly had was different than what was in the document we were reviewing – will leave this to Rich to finalize for ion chambers.
- Low Power Dump – Bit\_15 – masked for December – ultimately will require a G0 VME card – analog card using 2 of the channels for 2 temperature measurements.
- Page 2 included the Normal FSD items
- ILM1P01, ILM1P02, ILM1P03, ILM1P04 – Bit\_1 through Bit\_4 – will be permanently masked for g2p (Compton BCMs)
- Vacuum Shield Wall to Dump – Bit\_5 – standard item, no issues
- Vacuum – Compton Chicane – Bit\_6 – this should be valved off and not be required – action for Tim Michalski to verify this with John Heckman
- Moeller Target – Bit\_7 – this is required for g2p as the Moeller will be used
- 1H002 Tree – Bit\_8 – standard item, no issues
- FZ1 & FZ2 Magnets SUM – Bit\_9 – will be masked for December commissioning – will be required for experimental running later – Simon would like to test these if possible – requires and analog card
- Septum Magnet – Bit\_10 – move to a different card – needs the 24V CAMAC
- Target Magnet – Bit\_11 – will be masked for December commissioning – will be required for experimental running later – requires and analog card
- Pressurization – Bit\_12 – move to a different card – needs the 24V CAMAC
- Fast Raster – Bit\_13 – required for December commissioning run
- Slow Raster – Bit\_14 – required for December commissioning run
- Page 3 included VME FSD items – standard items, no issues – covers hall dump area
- Need a new CAMAC card – assume it will be ISD003 1H003 with the following items on it:

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- Septum Magnet – Bit\_1 – left and right side fields need to be relatively equal – get a 24V signal from power supplies if either shuts off or creates unbalanced magnetic field on 2 sides of the magnet
- Pressurization of Target Beampipe – Bit\_2 – for December commissioning run – 24V signal if helium pressure is within acceptable range